

Application No. 10/775,453
Attorney Docket No. 13DV-13640 (07783-0151)

C.) AMENDMENTS TO THE CLAIMS

This listing of the claims will replace all prior versions, and listings of claims in the Application.

1. (canceled)
2. (previously presented) A composition for forming a bond coat for use with a ceramic composite component, the composition comprising:
 - an alumina powder;
 - a silica-yielding liquid;
 - glass frits, wherein the alumina powder and the glass frits each comprises about 45 weight percent, and the silica-yielding liquid comprise a remaining solids portion of the composition; and
 - an amount of solvent sufficient to permit mixing of the components and forming a bond coat.
3. (previously presented) The composition of claim 2 wherein the silica-yielding liquid is comprised of silicone resins.
4. (previously presented) The composition of claim 2 wherein the solvent is comprised of ethanol and isopropyl alcohol.
5. (previously presented) The composition of claim 2 further comprising a dispersant.
6. (previously presented) The composition of claim 2 wherein the glass frits are a mixture comprising calcium oxide, silicon oxide, aluminum oxide, barium oxide, and magnesium oxide.
7. (previously presented) The composition of claim 6 wherein a percentage weight of each component of the total weight of the mixture is controlled to provide a predetermined melting point of the bond coat.
8. (currently amended) The composition of claim 2 wherein the ~~bond coat~~ composition is applied to a surface of a component as is a slurry spray.

Application No. 10/775,453
Attorney Docket No. 13DV-13640 (07783-0151)

9. (currently amended) The composition of claim 2 wherein the ~~bond-coat composition~~ is applied to a surface of a component as is a tape.

10. (currently amended) The composition of claim 2 wherein the ~~bond-coat composition~~ is applied to a surface of a component with a brush.

11.-14 (canceled)

15. (previously presented) A method of producing a coated ceramic composite component having a substrate, the steps comprising:

- providing a ceramic composite component having a substrate;
- applying a bond coat over the substrate, wherein the bond coat is formed by mixing an alumina powder, a silica-yielding liquid, glass frits and solvent;
- firing the ceramic composite component;
- applying a ceramic coat over the bond coat; and
- firing the ceramic composite component.

16. (currently amended) A method of producing a coated ceramic composite component having a substrate, the steps comprising:

- providing a ceramic composite component having a substrate;
- applying a bond coat over the substrate, wherein the step of applying the bond coat is the bond-coat-application selected from the group consisting of [[a]] slurry spray, spraying a tape and [[a]] brush brushing, wherein the bond coat is formed by mixing an alumina powder, a silica-yielding liquid, glass frits and solvent;
- applying a ceramic coat over the bond coat; and
- firing the ceramic composite component, wherein the step of firing the ceramic composite includes the step of mixing alumina in the substrate with the molten bond coat.

17. (canceled)

18. (canceled)